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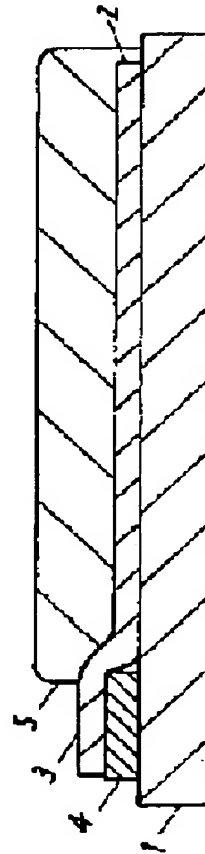
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APPLICANT : MATSUSHITA ELECTRIC IND CO LTD;

INVENTOR : ICHIMURA CHISA;

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TITLE : PLATINUM TEMPERATURE SENSOR



ABSTRACT : PURPOSE: To make it possible to firmly adhere an electrode part to an alumina substrate, and to obtain a highly efficient platinum temperature sensor having a long lifetime by a method wherein a metal oxide thin film layer, containing one or more kinds of elements selected from titanium, manganese, molybdenum, chromium, zirconium and copper, is formed below the take-out electrode part of a platinum thin film resistor.

CONSTITUTION: The titanium metal organic paste, which is mainly composed of octyl acid titanium, is printed on an alumina substrate 1 corresponding to the lead-out electrode part 3 of a platinum thin film resistor 2, a calcinating operation is conducted thereon, and a metal oxide thin film layer 4, consisting of titanium oxide, is formed. Then, platinum, including the above-mentioned metal oxide thin film layer 4, is vapor-deposited on the whole surface of the alumina substrate 1, a heat treatment is conducted thereon, and after the platinum thin film layer is adhered to the alumina substrate 1, patterning is conducted thereon using a YAG laser beam, a heat-treatment is performed, final resistance value adjusting layer trimming is conducted, and a platinum thin film resistor 2 is formed.

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PLATINUM TEMPERATURE SENSOR

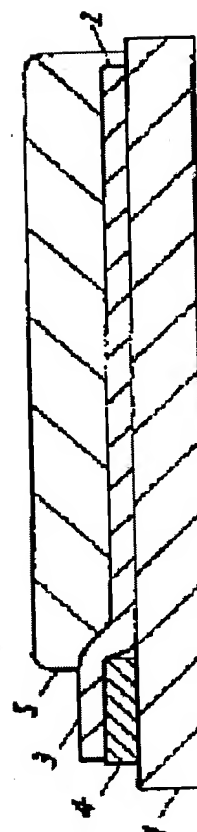
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 Applicant: MATSUSHITA ELECTRIC IND CO LTD
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 - european:
 Application number: JP19900061447 19900313
 Priority number(s): JP19900061447 19900313

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Abstract of JP3262101

PURPOSE: To make it possible to firmly adhere an electrode part to an alumina substrate, and to obtain a highly efficient platinum temperature sensor having a long lifetime by a method wherein a metal oxide thin film layer, containing one or more kinds of elements selected from titanium, manganese, molybdenum, chromium, zirconium and copper, is formed below the take-out electrode part of a platinum thin film resistor.

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